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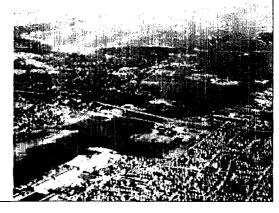
New Bedford Harbor Superfund Site Fish Smart Campaign



Stacy Greendlinger US Environmental Protection Agency

New Bedford Harbor

- Encompasses 18,000 acre urban estuary
- Added to NPL in '83
- 900,000 cubic yards PCB-contaminated sediment to be removed



175 Football Fields Each 3 Ft Deep

Contamination Levels: How bad is bad?

- PCB Contamination levels: highest 200,000 parts per million
- Put into perspective: Cleanup Standards
 - 1 ppm residential
 - 10 ppm upper harbor subtidal mud flats
 - 25 ppm intertidal recreational
 - 50 ppm harbor

Human Health Risk:

- Consumption of contaminated seafood
- Dermal contact

Site Challenges

- PCB-contaminated seafood 40 times higher than Superfund risk thresholds
- Unenforceable fishing ban
- Four impacted municipalities
- Fishing is important to the area
- Lengthy cleanup process
- State issued without enforcement measures;
- •with a large non-English speaking immigrant population, low literacy levels, and high drop-out and unemployment rates
- •culturally, historically and economically-- subsistence fishing is prevalent;
- •which likely will take decades because of the large scale (900,000 cubic yards of sediment to be removed) and limited funding rate.

Current #15 mil per year => Excess of 30 yrs.

How to Protect Human Health Now?

- Goal:
 - No consumption of New Bedford Harbor Seafood
- How to achieve?
 - With no enforcement mechanisms it comes down to changing human behavior

30 yrs is a long time to have people @ risk

Changing Human Behavior 1st Get People's Attention 2nd Inform Them 3rd Modify Behavior

Sounds straight forward enough...however...people are bombarded every day throughout the day

Hefty Competition

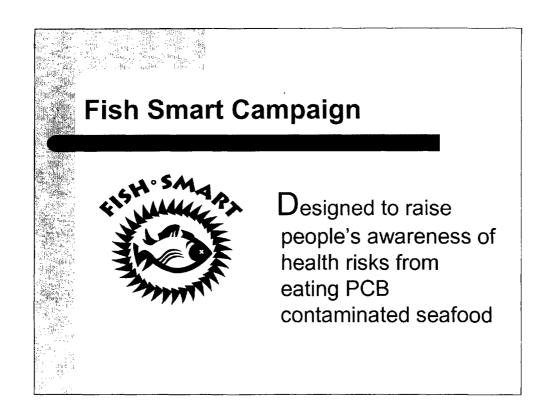
Behavior Influences

Children

- Influence adults directly with message about their children
- Influence children and their own actions with direct message to them
- Indirectly influence adults by message directed to children which they in turn bring back to adults

For the NBH SF site children are the most effective behavior influence People less likely to put children at risk Risk that is acceptable for them isn't for their children

Children Motivating factor



Desired Outcome: change local consumption habits

- •Challenges of a voluntary program w/ no enforcement component
- Strategies and tools the campaign is employing to educate and change local consumption habits, as well as how we are striving to remain dynamic in order to best achieve campaign objectives.

NOT COMMERCIAL

Targeted Audience

- General Fishing Population
- Women of Child-Bearing Age
- Children

Most @ Tisk

most influence

Most focus from my

limited resources



- Fishing Map
- No Fishing Signs
- Posters
- Leaflets
- Dr. Tip Cards
- Tri-lingual Brochure
- Teachers' Curriculum Resource Book

What we work with



Materials developed w/ local focus group comprised of social service and health care providers



All materials in English, Spanish & Portuguese

Fish Smart Partners

State Regulators

• Mass DEP and MA DPH

Local Partners:

- Educators
- Environmental groups
- Medical providers
- Social service providers
- Marinas & bait shops



- •Addresses limited resources
- •Local knowledge/credibility

Tilbjøn.

•Expertise

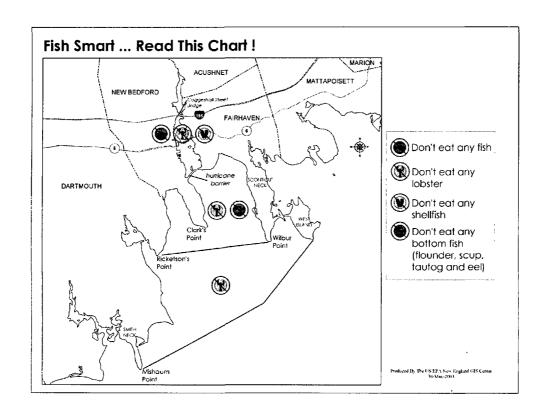
General Fishing Population

- Mass mailing
- Materials at area marinas & bait shops
- Developing a poster for use at marinas & bait shops
- Materials at Immigrants Assistance Center

STRATEGY

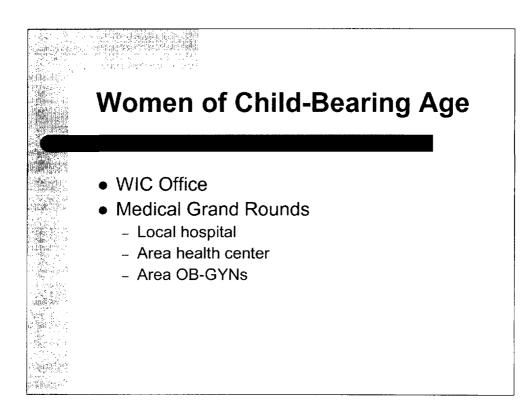
4,000 people on mailing list

Less hope able to change behavior
Typically Made not necessarily
direct shift care provident



3 différent arons complicate message





WIC

WIC= Women, Infant, & Children: program for low income women & children who are at nutritional risk. Provides foods to supplement diets and info for healthy eating

WIC: Posters & Materials for nutrition councilors

Evaluation

Grand Grounds hosted by MA DPH

Continuing Credit hours for medical staff

Presentation in tandem with a physician

Materials

Pre & Post Tests

Evaluation

Materials made available





Are your patients at risk from eating fish?

PCB Facts

New Bedford Harbor is heavily coalami nated with FCBs

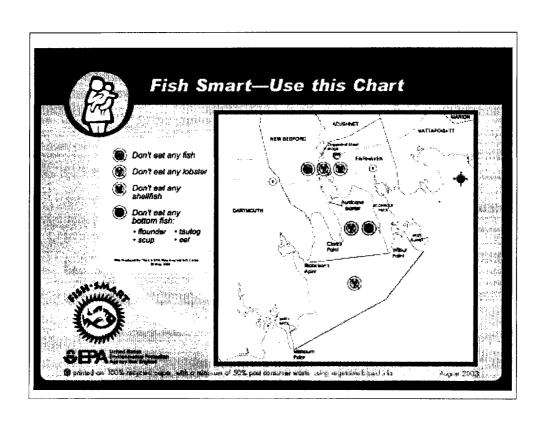
Eating lorge amounts of fish or shellfish containing PCBs may cause adverse health effects including, liver and immune system damage, neurological, developmental and reproductive effects, and cancer.

Tips for Patients

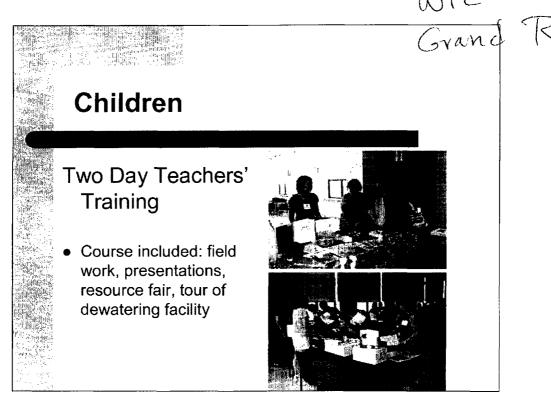
- Advise pregnant women, those who may become pregnant, nursing mothers and young children not to eat sectood caught from New Bedford Harbor (see closed areas map on reverse).
- Advise wamen of child bearing age that they can safely eat 12 ounces of cooked fish per day from a store or restaurant.

For more information, call the US Environmental Protection Agency of 1:688-372-7341 ext.81403

SEPA United States
Confirmments: Protection
Adency New England



Medical: School norses WIC Grand Rounds



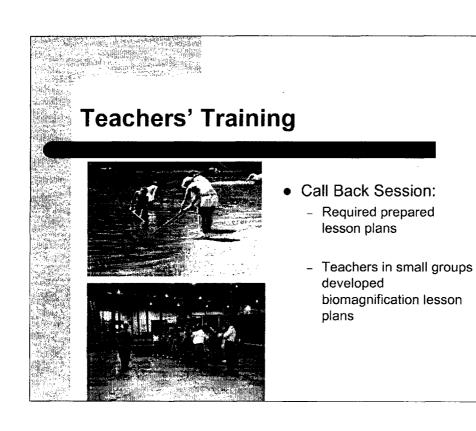
In addition to medical outreach angles

Training:

Desired Outcome: Fish Smart info incorporated into curriculum

Provide 12 professional development credit hours for course: additional 2 hrs for

Call Back Evaluation



Children Educational Opportunities through: SeaLab, New Bedford Whaling Museum, UMASS at Dartmouth, Lloyd Center for the Environment Research Vessel: 5 wk course. Will train the trainers

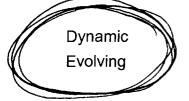
Partners each have own courses / activities which present teaching opportunities

SeaLab each yr has 2,000 $5^{\rm th}$ graders, 500 teachers and 100 administrators circulate through



Other Opportunities

- To-Do:
 - Bus Station/buses: posters
 - Public Housing: posters
 - Community centers citywide: posters
 - Public Service Announcements all media
 - Permanent display at SeaLab
 - Engage new partners



MA Executive Office of Environmental Affairs Environmental Justice Coordinator

